CIVIL-TECH CONSULTANTS & ENGINEERS

Building & Highway Material Testing Laboratory

NABL - Accredited Laboratory as per ISO / IEC - 17025 : 2005

Job No.: CTCE/BBMP/W.No.11/BC/CEMENT/2013-14

Date: 17.02.2014

TEST REPORT

CLIENT	:	**Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.
AGENCY	:	**Mr. B. Chandrashekar,** Contractor, Bangalore.
NAME OF THE WORK	:	Improvements to CC Roads and Drains Behind Gangamma Temple in Ward No.11(Kuvempunagar) Vidyaranyapura Sub Division, BBMP, Bangalore.
REFERENCE	:	AEE/VP/WO/344/2013-14 Dated: 14.02.2014
SAMPLE ID	:	Cement
SAMPLES SUPPLIED BY	:	AGENCY

The results of the tests conducted on the cement sample are as follows:

Sl.No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 8112-1989
1	a) Initial Setting Time	IS-4031 (Part -5)	155 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5)	490 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part 3) by the Le-Chatelier method	1 mm	Not more than 10 mm
3	Standard Consistency	IS-4031 (Part -4)	27.50 %	-

Note:

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Assistant Executive Engineer
Vidyaranyapura Sub Division
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Job No.: CTCE/BBMP/W.No.11/BC/SAND/2013-14 : 17.02.2014

TEST REPORT ON FINE AGGREGATES (SAND)
IS 383-1970 (RA- 2002)

Client : **Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.

Agency : **Mr. B. Chandrashekar,** Contractor, Bangalore.

Name of Work : Improvements to CC Roads and Drains Behind Gangamma Temple in Ward No.11(Kuvempunagar) Vidyaranyapura Sub Division, BBMP, Bangalore.

Reference : AEE/VP/WO/344/2013-14 Dated: 14.02.2014

Date of Testing : 17.02.2014

Material : Sand Total Wt. of Aggregates in gms 2000

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits For Zone-II
10	0	0	0	100	100
4.75	106	5.30	5.30	94.7	90-100
2.36	218	10.90	16.20	83.8	75-100
1.18	508	25.40	41.60	58.4	55-90
600 Micron	498	24.90	66.50	33.5	35-59
300 Micron	458	22.90	89.40	10.6	8-30
150 Micron	168	8.40	97.80	2.2	0-10

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Job No.: CTCE/BBMP/W.No.11/BC/AGG/2013-14 : 17.02.2014

TEST REPORT ON COARSE AGGREGATES
IS 383-1970 (RA- 2002)

Client : **Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.

Agency : **Mr. B. Chandrashekar,** Contractor, Bangalore.

Name of Work : Improvements to CC Roads and Drains Behind Gangamma Temple in Ward No.11(Kuvempunagar) Vidyaranyapura Sub Division, BBMP, Bangalore.

Reference : AEE/VP/WO/344/2013-14 Dated: 14.02.2014

Date of Testing : 17.02.2014

Material : 40mm Aggregates

Total Wt. of Aggregates in gms 25300

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits
80	0	0	0	100	100
40	1028	4.06	4.06	95.94	95-100
20	15285	60.42	64.48	35.52	30-70
10	6230	24.62	89.10	10.90	10-35
4.75	2367	9.36	98.46	1.54	0-5

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Job No.: CTCE/BBMP/W.No.11/BC/STEEL/2013-14 17.02.2014

TEST REPORT ON REINFORCEMENT STEEL

Client	:	**Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.
Agency	:	**Mr. B. Chandrashekar**, Contractor, Bangalore.
Name of the work	:	Improvements to CC Roads and Drains Behind Gangamma Temple in Ward No.11(Kuvempunagar) Vidyaranyapura Sub Division, BBMP, Bangalore.
Reference	:	AEE/VP/WO/344/2013-14 Dated: 14.02.2014
Date of Test	:	17.02.2014
Technical Reference	:	IS: 1786-2008

Sl. No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm²	Tensile strength (Ultimate stress) N/mm²	Elongation percent gauge length		
1	10	0.62	518	555	13.50	O.K	O.K

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Job No.: CTCE/BBMP/W.No.11/BC/CUBE/2013-14 28.03.2014

TEST REPORT ON CONCRETE CUBES

Client	: **Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.
Agency	: **Mr. B. Chandrashekar,** Contractor, Bangalore.
Name of the work	: Improvements to CC Roads and Drains Behind Gangamma Temple in Ward No.11(Kuvempunagar) Vidyaranyapura Sub Division, BBMP, Bangalore.
Reference	: AEE/VP/WO/344/2013-14 Dated: 14.02.2014
Sample ID	: Pavement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{20}
Compressive Strength as on	: 28^{th} day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	28.02.2014	28.03.2014	8.296	499.7	22.21
2	28.02.2014	28.03.2014	8.149	482.3	21.44
3	28.02.2014	28.03.2014	8.388	515.6	22.92

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